

What is claimed is:

1. A process for producing plastics moldings with a thickness of 30-200 mm by thermal polymerization of a mixture of a residual initiator-free polymethyl (meth)acrylate syrup and a mixture consisting of MMA and the customary additives and an olefinic carbocyclic compound.
2. The process as claimed in claim 1,  
characterized in that  
the residual initiator-free polymethyl (meth)-acrylate syrup has the following properties:
  - content of initiator peroxides used: below the detection limit (< 5 ppm)
  - average molecular weight  $M_w$  240 000-350 000
  - composition: from 70 to 90% by mass of methyl methacrylate,  
from 10 to 30% by mass of PMMA
  - viscosity: 30-60 seconds (Ford cup).
3. A process for preparing a residual initiator-free polymethyl (meth)acrylate syrup,  
characterized in that  
a mixture of:
  - 100 parts of MMA  
and  
0.05-0.1 part of peroxydicarbonateis incipiently polymerized up to conversion of 10-30%.
4. Sheets of PMMA obtainable by a process of claim 1.

5. The use of the sheets of PMMA as claimed in claim 4 for producing aquaria.

5 6. The process as claimed in claim 1,

characterized in that

10 the carbocyclic compound is used in amounts of 50-300 ppm based on the amount of the polymerization batch.

7. The process as claimed in claim 1,

15 characterized in that

the carbocyclic compounds used are terpenes.

8. The process as claimed in claim 1,

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characterized in that

the terpene used is  $\gamma$ -terpinene.